[English] AV-25VM1EN AV-28VM1EN

OPERATING INSTRUCTIONS

JVC

English

AV-25VM1EN/AV-28VM1EN

COLOUR TELEVISION

INSTRUCTIONS

Thank you for purchasing this JVC colour television.
To ensure your complete understanding, please read this manual thoroughly before operation.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

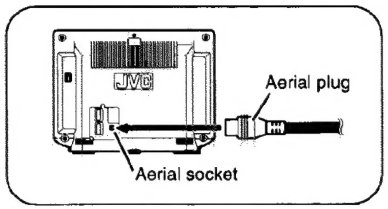
1. Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet.

CONNECTION 2
PREPARATION 3
VIEWING A TELEVISION PROGRAMME 8
SOUND AND PICTURE 10
OTHER FEATURES 12
EDITING PR CHANNELS 14
VIEWING FROM AN EXTERNAL DEVICE 17
VIEWING A TELETEXT PROGRAMME 18
TELETEXT FUNCTIONS 19
TROUBLESHOOTING 21
SPECIFICATIONS 22

CONNECTION

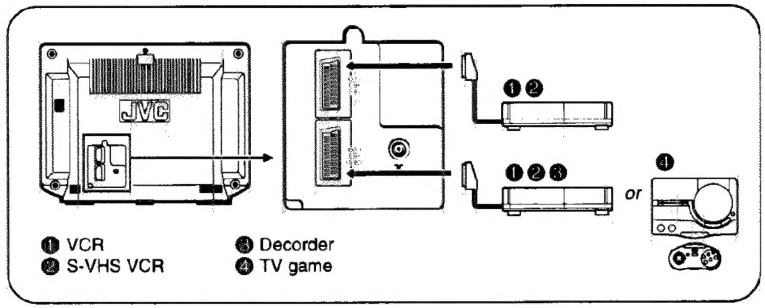
Connecting the aerial



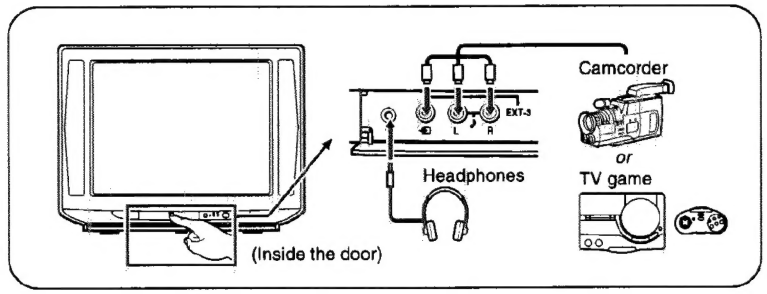
Connecting external devices

Refer to manuals provided with devices for further details.

■ When connecting to the terminal on the rear panel



■ When connecting to the terminal on the front panel



Notes:

- This TV set has external device connectors, EXT-1 to EXT-3, to which you can connect a VCR. However, there are some differences in function among them. Consult the following table before making connection.

	EXT-1	EXT-2	EXT-3 (front)
VIDEO IN	√ *1	√ *1	√
VIDEO OUT	√ *2	√ *3	–
S-VIDEO IN	√ *1	√ *1	–
S-VIDEO OUT	–	–	–
RGB IN	√	–	–
AUDIO-L IN	√	√	√
AUDIO-R IN	√	√	√
AUDIO-L OUT	√ *2	√ *3	–
AUDIO-R OUT	√ *2	√ *3	–
Others	Automatic detection and switching of input mode.		

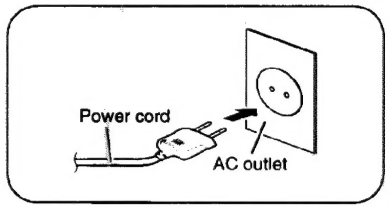
*1 Select VIDEO or S-VIDEO mode by (S-IN) button.
*2 Only the TV broadcast is output.
*3 TV broadcasts or inputs from EXT-1 or 3 can be output. However, when you select EXT-2 no signals are output.

- Use headphones with a stereo mini jack (Ø 3.5mm). When using headphones, the speakers will not output sound.

PREPARATION

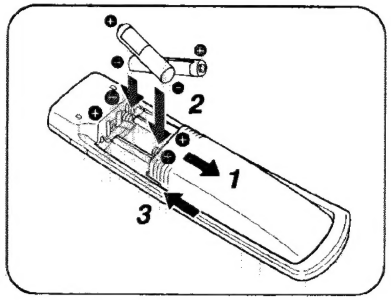
Connecting the power cord

Insert the Power plug into the AC outlet (AC 220–240V, 50Hz).



Inserting batteries into the remote control

Correctly insert 2 batteries observing the ⊕ and ⊖ polarities from the ⊖ end.



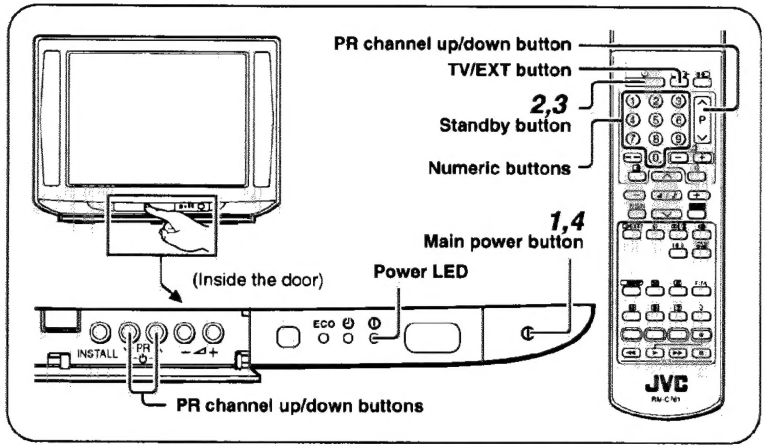
Caution:

- Follow the cautions printed on the batteries.

Notes:

- Use AAA/R03 dry cell batteries.
- Battery life is approximately 6 months to 1 year depending on the frequency of use.
- If the remote control operates erratically, replace the batteries.

Turning your TV ON/OFF



■ To turn your TV ON

1. **Press ⏻ (Main power) button to turn Main power ON.**
   ⏻ (Power) LED lights up red.
   • Your TV enters Standby mode.
2. **Press ⏻ (Standby) button to your TV ON.**
   ⏻ (Power) LED changes to green.

Note:

- At step 2, your TV turns ON if you press any of the following buttons:
  – PR (PR channel up/down) buttons on the TV
  – (PR channel up/down) button on the remote control
  – numeric buttons
  – TV/EXT (TV/EXT) button

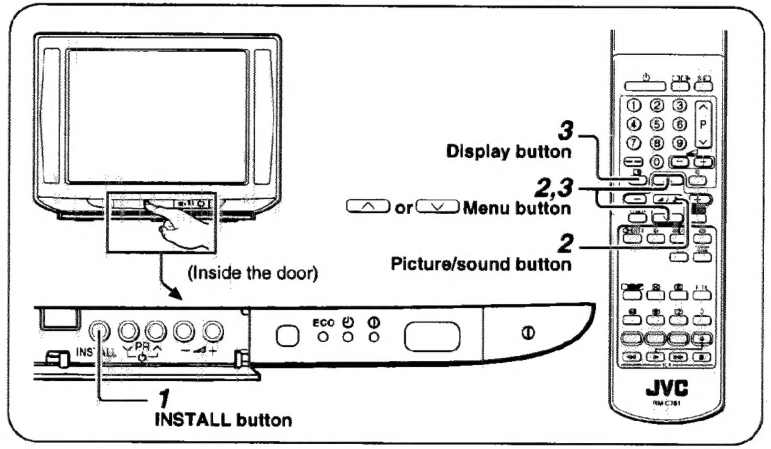
■ To turn your TV OFF

3. **Press ⏻ (Standby) button to your TV OFF.**
   ⏻ (Power) LED changes to red.
   • Your TV enters Standby mode.
4. **Press ⏻ (Main power) button to turn Main power off.**
   ⏻ (Power) LED goes off.

Notes:

- Your TV cannot be turned OFF even if you press PR (PR channel up/down) buttons on the TV at step 3.
- We recommend that you turn the Main power OFF if you do not plan to use your TV for a long time and/or you wish to save energy.

Selecting the on screen language



You can select one of 6 languages as the on screen language.
In this English INSTRUCTIONS manual, on-screen descriptions are given in English. Select English. English is already set as the on-screen language of this TV.

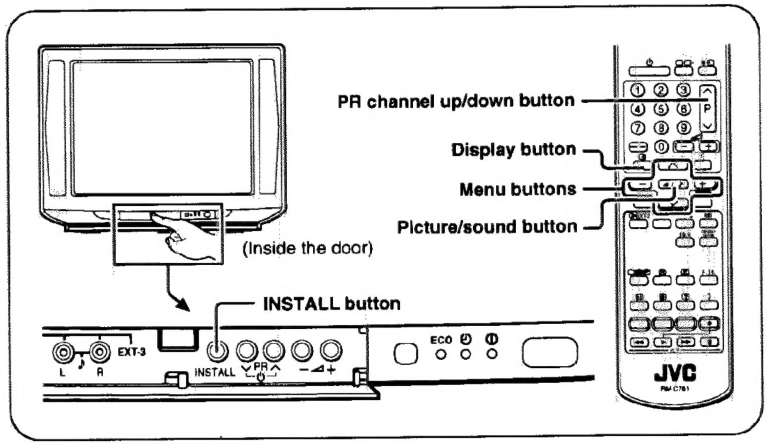
1. **Press INSTALL (Install) button on your TV.**
2. **Press ∧ or ∨ menu button to select LANGUAGE, then press (Picture/sound) button.**
3. **Press ∧ or ∨ menu button to select a language, then press (Display) button twice.**

(No.50947) 3

Presetting PR channels (Programmed channels)

To watch TV, you must first set the broadcast channels to the PR channels on your TV.
You can set up to 100 channels you want to watch. (PR01 to 99, PR00(AV)).
There are two ways of setting PR channels, automatic setting and manual setting.

- After you have set the PR channels, the PR channels can be edited. For details, see page 14.



■ Automatic setting (AUTO PROGRAM)

Broadcast channels that can be received are automatically judged, and PR channels are set in order from low frequency broadcast channels.
Automatic setting is handy as PR channels can be set easily.

1. **Press INSTALL (Install) button.**
2. **Press ∧ or ∨ menu button to select AUTO PROGRAM.**
3. **Press (Picture/sound) button twice.**

The channel is automatically set, and the EDIT menu is displayed.

- To edit PR channels, see page 14.

4. **Press (Display) button twice.**

The setting is complete.

Note:

- With automatic setting, a broadcast channel cannot be set to PR channel PR00 (AV).
  To set a broadcast channel to PR00 (AV), set by manual setting or by editing a PR channel.

■ Manual setting

1. **Press INSTALL (Install) button.**
2. **Press ∧ or ∨ menu button to select MANUAL, then press (Picture/sound) button.**

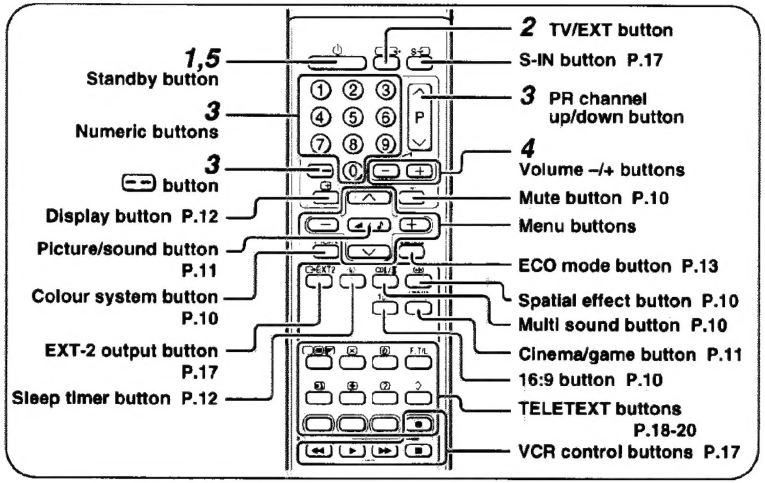
3. **Press (PR channel up/down) button to select PR channel number.**
4. **Press − or + menu button to select the frequency of the broadcast channel.**
   Scanning is stopped automatically when a broadcast is received.
   Repeatedly press − or + menu button to scan until the desired broadcast is received.

Notes:

- For details on the frequency of broadcast channels, see "Broadcast Channel Frequency Table" on page 16.
- If the picture is not clear:
  Press ∨ menu button to select FINE.
  Then press − or + menu button to fine-tune the channel.

5. **Press (Picture/sound) button.**
   The on-screen display blinks once, and the current settings are stored as a PR channel.
   Repeat steps 3 to 5 to store all desired broadcast channels.
6. **Press (Display) button twice.**
   The setting is complete.

Controlling the TV using the remote control



1. Press (Standby) button to turn your TV ON.

ⓘ (Power) LED changes colour from red to green.

Note:

- If your TV does not turn ON, press ⓘ (Main power) button and press ⏻ (Standby) button again.

2. If your TV is in the EXT mode, press (TV/EXT) button to select TV mode.

3. Select a PR channel.

■ Scan selection

Press (PR channel up/down) button

■ Direct selection

- When selecting a 1-digit PR channel
  Press numeric button.
- When selecting a 2-digit PR channel
  1. Press button.
  2. Press one of numeric buttons 0-9.
  3. Press one of numeric buttons 0-9.

Notes:

- PR channel PR00 is displayed as "AV" on screen.
- You can also select a 2-digit PR channel by continuously pressing the numeric buttons.

4. Press (Volume –/+) buttons to adjust the sound.

5. To turn your TV OFF, press (Standby) button.

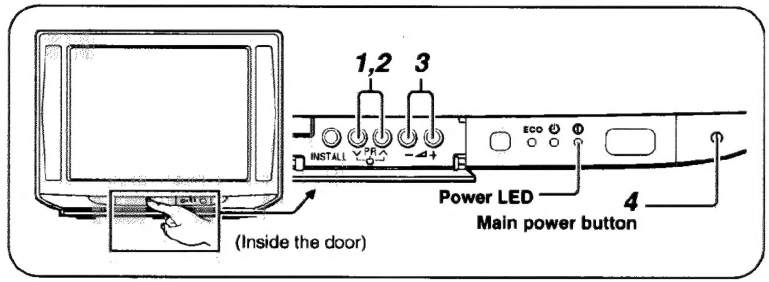
ⓘ (Power) LED changes colour from green to red.

Note:

- We recommend that you press ⓘ (Main power) button to turn the Main power OFF, if you do not plan to use your TV for a long time and/or you wish to save energy.

Controlling the TV without using the remote control

You can view a television programme using buttons on Front panel.



1. Press (PR channel up/down) buttons to turn your TV ON.

ⓘ (Power) LED changes colour from red to green, and your TV enters the TV mode.

Notes:

- If your TV does not turn ON, press ⓘ (Main power) button and press (PR channel up/down) buttons again.
- You cannot enter the EXT mode by the buttons on your TV.

2. Press (PR channel up/down) buttons to select the PR channel.

3. Press (Volume –/+) buttons to adjust the sound.

4. To turn off your TV, press ⓘ (Main power) button to Main power OFF.

ⓘ (Power) LED goes off.

- If you press ⓘ (Main power) button again, your TV automatically turns ON. Step 1 is no longer required.

(No.50947) 5

Multi sound

You can select the sound system for stereo broadcast programmes and bilingual programmes. To do this, press (Multi sound) button repeatedly to select the desired sound system.

- : Stereo sound
- I : Bilingual I (sub I)
- II : Bilingual II (sub II)
- O : Normal sound

Notes:

- MULTI SOUND function has no effect without NICAM or A2 broadcast programmes.
- When displaying the current PR channel number, the current mode appears for approx. 3 seconds.

Colour system

The colour system is automatically selected. If the picture is not clear, you can change it manually. To do this, press (Colour system) button repeatedly. The system changes cyclically in the following order.

When in TV mode:

→ PAL → SECAM →

When in EXT mode:

→ AUTO → PAL → SECAM →
NTSC4.43 ← NTSC3.58 ←

AUTO:

Automatic colour system selection

Mute

You can instantly turn the sound off. To do this, press (Mute) button. To return the sound, press (Mute) button again.

Spatial effect

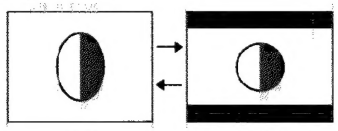
You can enjoy sounds with a wider ambiance by Spatial effect. To do this, press (Spatial effect) button. To return to normal sound, press (Spatial effect) button again.

When you select Spatial effect:

- Stereo sound sounds wider.
- Monaural sound sounds wider.

Wide screen (16:9)

You can enjoy a wider viewing screen by changing the aspect ratio from standard (4:3) to view panoramic pictures (16:9). To do this, press (16:9) button to alternate the aspect ratios.



(4:3) (16:9)

Temporarily picture/ sound adjustment

You can temporarily adjust the picture and sounds as you like.

1. Press (Picture/sound) button.
Picture adjust menu Appears.

2. Press or menu button to select an item, and press or menu button to set the level.

−	Item	+
Reddish	TINT*	Greenish
Low	COLOUR	High
Dark	BRIGHT	Bright
Low	CONT.	High
Soft	SHARP	Sharp

BRIGHT: Brightness
CONT.: Contrast
SHARP: Sharpness

* You can only set TINT when in EXT mode NTSC 3.58 or NTSC 4.43.

3. Press (Picture/sound) button to display the Sound adjust menu.

4. Press or menu button to select an item, and press or menu button to set the level.

−	Item	+
Low	BASS	High
Low	TREBLE	High
Left	BALANCE	Right

5. Press (Picture/sound) button.
The settings are complete.

Note:

- If you press (Cinema/game) button to change a setting other than the USER, your Picture/sound adjustment setting is canceled.

Picture/sound selection

You can select the desired setting from four Picture/sound settings.
To do this, press (Cinema/game) button repeatedly. The setting changes cyclically in the following order.

→ CINEMA → GAME → STANDARD → USER →

(Cinema mode):
Use this setting when viewing film programs.

(Game mode):
Use this setting when playing TV games.

STANDARD (Standard mode):
Use this setting for regular viewing.

USER (User mode):
Use this setting to set your own special adjusted Picture/sound setting. To do this, select USER and adjust the setting by Temporary picture/sound adjustment.

Display messages

You can display the channel number and ID, or the current time. To do this, press (Display) button repeatedly. The display changes cyclically in the following order.

PR channel number and ID → Current time → No indication

About the current time display:

This TV displays the current time using the current time data of TELETEXT.

- Only the black frame is displayed when watching broadcasts that are not TELETEXT broadcasts.
- When watching videos, the wrong current time is sometimes displayed.

Note:

- The display of the current time runs to the side and is sometimes not displayed when the reception state of TELETEXT broadcast is poor.

Sleep timer

You can set your TV to automatically turn off within a specified period of time. The period of time increases in 10-minite intervals.

00 → 10 → 20 ••• 100 → 110 → 120

- (Sleep timer) LED lights when the sleep timer is set.
- 1 minute before the off timer arrives, "GOOD NIGHT!" appears. And 3 seconds before the off timer arrives, "JVC" is displayed blinking on screen.

To display the remaining time:

Press (Sleep timer) button once.

To cancel the SLEEP TIMER:

Press (Sleep timer) button to return the OFF time to 00.

(Sleep timer) LED goes off.

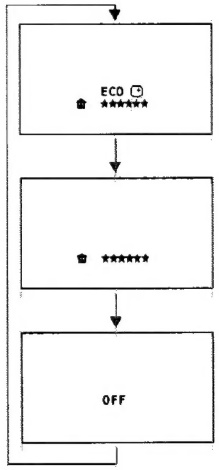
Note:

- The main power cannot be turned OFF by the sleep timer.

ECO mode

When you set the ECO mode to ON, the screen contrast is automatically adjusted to the optimum setting matched to the brightness of your room.
For example, you can prevent watching a screen that is unnecessarily bright for a dark room. This reduces eye strain and the power consumption of the TV.

***1.* Each press of (Eco mode) button, switches the function as follows.**



ECO MODE: ON
(Display) function: ON
- The ECO (Eco mode) LED on the front of your TV lights.

ECO MODE: ON
(Display) function: OFF
- The ECO (Eco mode) LED on the front of your TV stays lit.

ECO MODE: OFF
(Display) function: OFF
- The ECO (Eco mode) LED on the front of your TV goes out.

What is the "(Display) function"?

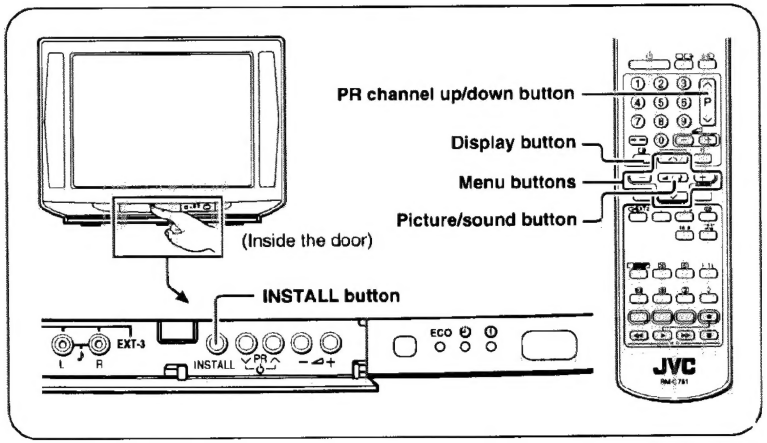
This function is for displaying the brightness of your room by stars ★ each time the brightness changes when the ECO MODE is ON. Up to six stars ★ shows the brightness of your room. The greater the number of stars, the darker your room is.

(No.50947) 7

EDITING PR CHANNELS

You can delete unwanted broadcast channels or change the PR channel number in the EDIT menu. You can also turn channel skip ON or OFF, or set a station ID to a broadcast channel.

How to edit PR channels

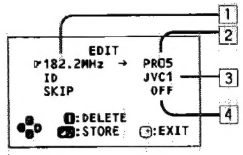


Notes:

- When automatic setting is finished, the screen changes to the EDIT screen for PR channel PR01. To continue editing PR channels, proceed to step 4.
- For details on the frequency of broadcast channels, see "Broadcast Channel Frequency Table" on page 16.

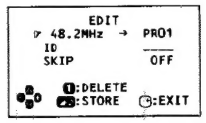
1. Press INSTALL (Install) button to display the INSTALLATION menu.

2. Press ∧ or ∨ menu button to select EDIT. Then, press (Picture/sound) button to display the EDIT menu.



1: frequency of broadcast channel
2: PR channel number
3: station ID
4: channel skip setting

3. Press (PR channel up/down) button to set the PR channel number to PR01.
The menu becomes the EDIT menu for PR channel PR01, and the broadcast channel set to PR01 is displayed on screen.



Note:

- To change the PR00 (AV) setting, set the PR channel number to 00 and start editing.

4. Change the currently displayed PR channel setting.
When leaving the setting as it is, proceed to step 5.

■ To delete the broadcast channel set to the current PR channel:
Press numeric button 1.
- The broadcast channel set to the next PR channel is displayed on screen.

Note:

- When you delete a broadcast channel, each of the broadcast channels set to PR channels following that PR channel number are reset to the previous PR channel.

■ To change the broadcast channel set to the current PR channel:
Press − or + menu button to select the desired broadcast channel.

Note:

- Broadcast channels set to a PR channel number smaller than the current PR channel number cannot be selected.

■ To turn the channel skip setting of the current broadcast channel ON or OFF:
Press ∧ or ∨ menu button to select SKIP, and press − or + menu button to turn the channel skip setting ON or OFF.

Notes:

- When you turn channel skip ON, the PR channel can no longer be selected by the PR channel up/down button.
- The channel skip and station ID settings are set to broadcast channels. These settings do not change even if the PR channel number of the broadcast channel is changed.

■ To set the station ID to the current broadcast channel:
(1) Press ∧ or ∨ menu button to select ID.
(2) Press + menu button to select the position for entering the station ID.
- The colour of the selected position changes.

(3) Repeatedly press ∧ or ∨ menu button to select the ID letters.
(4) Press + button to move the entry position forward.
- Pressing − button sends the entry position backward.

(5) Repeat steps (3) and (4) to complete setting of the station ID.
(6) Press + button to return to ID.

5. Press (Picture/sound) button to end setting of the current PR channel.

EDITING PR CHANNELS

The EDIT menu for the next PR channel is displayed, and the broadcast channel set for that PR channel is selected.

Note:

- To change the setting of a PR channel having a number smaller than the currently displayed PR channel number, return to step 3., and select the PR channel whose setting you want to reset.

6. Repeat steps 4. and 5. to change the settings of all PR channels.

When you have finished setting all PR channels, return to the EDIT menu of PR channel PR01.

7. Press (Display) button twice to delete the EDIT menu.

Editing of PR channels is complete.

Broadcast Channel Frequency Table

- This TV displays only one digit past the decimal point for Broadcast channel Frequency values.

Channel	Frequency (MHz)
E2	48.25
E3	55.25
E4	62.25
X	69.25
Y	76.25
Z	83.25
Z+1	90.25
Z+2	97.25
S1, M1	105.25
S2, M2	112.25
S3, M3	119.25
S4, M4	126.25
S5, M5	133.25
S6, M6	140.25
S7, M7	147.25
S8, M8	154.25
S9, M9	161.25
S10, M10	168.25
E5	175.25
E6	182.25
E7	189.25
E8	196.25
E9	203.25
E10	210.25
E11	217.25
E12	224.25
S11, U1	231.25
S12, U2	238.25
S13, U3	245.25
S14, U4	252.25

Channel	Frequency (MHz)
S15, U5	259.25
S16, U6	266.25
S17, U7	273.25
S18, U8	280.25
S19, U9	287.25
S20, U10	294.25
S21, U11	303.25
S22, U12	311.25
S23, U13	319.25
S24, U14	327.25
S25, U15	335.25
S26, U16	343.25
S27, U17	351.25
S28, U18	359.25
S29, U19	367.25
S30, U20	375.25
S31, U21	383.25
S32, U22	391.25
S33, U23	399.25
S34, U24	407.25
S35, U25	415.25
S36, U26	423.25
S37, U27	431.25
S38, U28	439.25
S39, U29	447.25
S40, U30	455.25
S41, U31	463.25
E21	471.25
E22	479.25
E23	487.25

Channel	Frequency (MHz)
E24	495.25
E25	503.25
E26	511.25
E27	519.25
E28	527.25
E29	535.25
E30	543.25
E31	551.25
E32	559.25
E33	567.25
E34	575.25
E35	583.25
E36	591.25
E37	599.25
E38	607.25
E39	615.25
E40	623.25
E41	631.25
E42	639.25
E43	647.25
E44	655.25
E45	663.25
E46	671.25
E47	679.25
E48	687.25
E49	695.25
E50	703.25
E51	711.25
E52	719.25
E53	727.25

Channel	Frequency (MHz)
E54	735.25
E55	743.25
E56	751.25
E57	759.25
E58	767.25
E59	775.25
E60	783.25
E61	791.25
E62	799.25
E63	807.25
E64	815.25
E65	823.25
E66	831.25
E67	839.25
E68	847.25
E69	855.25

Channel	Frequency (MHz)
ITALY A	53.75
ITALY B	62.25
ITALY C	82.25
ITALY D	175.25
ITALY E	183.75
ITALY F	192.25
ITALY G	201.25
ITALY H	210.25
ITALY H+1	217.25
ITALY H+2	224.25

VIEWING FROM AN EXTERNAL DEVICE

You can view from a connected external device by selecting the appropriate input mode.

1. Press (TV/EXT) button repeatedly.

The mode changes cyclically in the following order.

→ **TV mode** → **EXT-1 mode** → **EXT-2 mode** → **EXT-3 mode** →

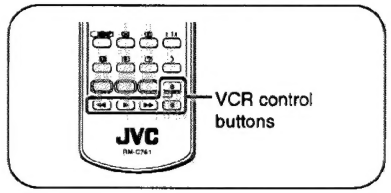
2. Press (S-IN) button if you wish to select S-VIDEO mode.

Note:

- You cannot select S-VIDEO mode in the EXT-3 mode.

To control your VCR via the TV remote control:

VCR control buttons on the remote control have the same functions as those on the JVC VCR units. For details on the functions, refer to the instruction manual provided with your JVC VCR.

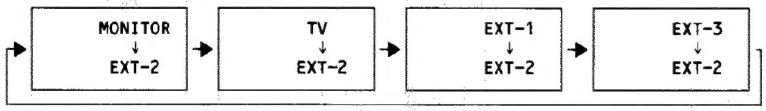


Note:

- Some VCRs or some functions of VCRs may not be operable with this remote control.

Selecting EXT-2 Output

Select output to a VCR or other device connected to the EXT-2 terminal. However, note that output from EXT-2 is not possible when the TV is turned off.
To do this, press (EXT-2 output) button repeatedly.



MONITOR: The same sounds and pictures that you are watching on your TV are output from EXT-2.

TV: The sounds and pictures of the PR channel currently selected on your TV are output from EXT-2. This allows you to record TV broadcasts on a VCR connected to EXT-2 while watching a video on EXT-1 or EXT-3.

Note:

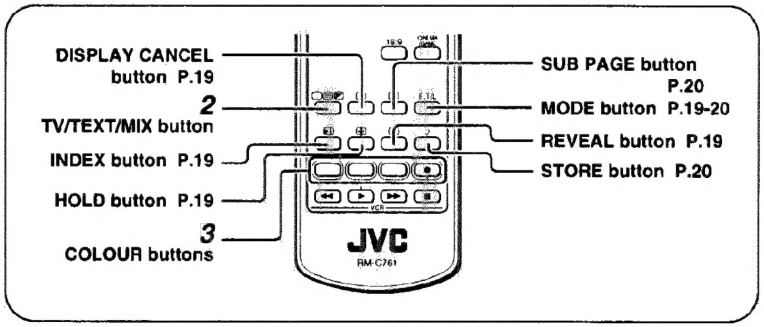
- RGB signals from TV games and TELETEXT screens cannot be output from EXT-2.

VIEWING A TELETEXT PROGRAMME

You can view three types of teletext programmes: Fastext, TOP and WST. Three types of programmes are automatically recognized by your TV.

Note

- If you have problem concerning a teletext programme, consult your local dealer or television company.



1. Select a PR channel that is broadcasting teletext information.

2. Press (TV/TEXT/MIX) button repeatedly to engage TEXT mode or MIX mode.

The mode changes cyclically in the following order.

→ TV mode → TEXT mode (TEXT only) → MIX mode (TV and TEXT) →

3. Select a page you wish to view.

To select a page by scanning:

Press (PR channel up/down) button.

∧ : scans forward to a page or item.

∨ : scans backward to a page or item.

To select a page directly:

Enter a 3-digit page number using numeric buttons.

To select a page with COLOUR button:

Press COLOUR button corresponding to the page number or item displayed at the bottom of the screen.

TELETEXT FUNCTIONS

Display cancel

You can view a normal TV programme while scanning for a teletext page you wish to view.

1. Select the page you want to view.
Scanning starts.

2. Press (Display cancel) button.
Your TV enters TV mode.

3. Press (TV/TEXT/MIX) button when the page number you wish to view appears in the upper left of the screen.

Page hold

You can hold a page temporarily even as the teletext transmission continues. To do this, press (Hold) button. Pressing (Hold) button or (Index) button, or selecting another teletext page will release the hold mode.

Hidden information reveal

Some teletext pages contain hidden information such as answers to questions. You can reveal the hidden information with this function.
To alternate reveal and hide, press (Reveal) button.

Index return

You can easily return to the index page by pressing (Index) button.

Fastext/WST: Returns to the teletext page on page 100 or a page which has been specified in teletext page.

TOP: The mode shifts to the direct select mode.
1. Press RED or BLUE COLOUR button to place the cursor on the title.
2. Press GREEN COLOUR button to view the information on the selected title.

LIST mode: Returns to the page of the page number displayed in red in the lower left area of the screen.

Calling up a stored page (LIST mode)

If you store the number of Teletext pages you often view to memory in the LIST mode, you can quickly call up the desired Teletext page whenever you like.

Note:

- You can store up to four Teletext page numbers to each of PR channels PR01 to PR15.
  You can store up to four Teletext page numbers to other PR channels as common page numbers regardless of the PR channel number.

To call up a stored page:

1. **Press F.T/L (Mode) button to engage the LIST mode.**
   The letter "L" indicating the LIST mode and stored* page numbers are displayed at the bottom of the screen.
2. **Press COLOUR button of the same colour as the colour of the number of the Teletext page you want to view.**
   • To release the LIST mode, press F.T/L (Mode) button again.

Note:

• For manufacturing reasons, page numbers are stored before shipment from the factory.
To store a desired Teletext page, see the next section "To change a stored page number."

To change a stored page number:

1. **Select a PR channel that is broadcasting a Teletext programme.**
2. **Press F.T/L (Mode) button to engage the LIST mode.**
   The letter "L" indicating the LIST mode and stored page numbers are displayed at the bottom of the screen.
3. **Select the desired page number, and press COLOUR button of the same colour as the colour of that page number.**
4. **Enter the number of the Teletext page you want to store in three digits using the numeric buttons.**
5. **If you want to change another page number, repeat steps 3. and 4.**
6. **Press (Store) button until the displayed page number momentarily changes to white.**
   This completes storing of the Teletext page.

Sub-teletext page display

Some teletext pages have sub-pages, which scroll automatically. You can store those pages in memory to view later on.

1. **Select a teletext page with sub-pages.**
2. **Press (Sub page) button.**
   "T * * * *" is displayed at the top right of the screen.
3. **Enter the sub-page number.**

   Example:
   To select the third page, press ⓪, ⓪, ⓪, ③.

   The page number displayed at the bottom of the screen is followed by "+", indicating that you are viewing a sub-page.

Note:

• "+" is not displayed when items are displayed at the bottom of the screen.

(No.50947) 11

TROUBLESHOOTING

Important: Review all the instructions written in this INSTRUCTIONS manual.

Problem	Action
Cannot turn TV ON	Press ⏻ (Main power) button. Insert the power plug in an AC outlet.
No picture or sound	Press TV/EXT (TV/EXT) button to engage the correct mode. Check the aerial connections.
Inoperable remote control	Replace the batteries.
The power shuts OFF automatically	Press (Standby) button to turn the TV ON again.
No sound	Disconnect the headphones.
No sound with stereo broadcast	Press MULTI (Multi sound) button to select ⓄⓄ (stereo sound).
No sound for Sub-I or Sub-II for programmes broadcast with dual sound	Press MULTI (Multi sound) button to select the appropriate mode.
Poor colours	Adjust the COLOUR and BRIGHTNESS controls. Press P/S/N (Colour system) button to select the appropriate system. Press CINEMA GAME (Cinema/game) button to select STANDARD mode.
Lines or streaks in picture (interference)	Move the components apart until the interference is eliminated. Move the aerial to a different position or direction.
Spotted picture (crosstalk)	Move the aerial away from the source of interference. Replace the aerial cable with a coaxial cable, which is less prone to interference.
Double pictures (ghost)	Move the aerial to a different position, height or direction. Replace with an aerial having good directivity.
Snowy picture (Image noise)	Check the aerial connection and direct it correctly. Replace or repair the aerial.
The screen turns black	Broadcast is not being received. Select another PR channel.
No receivable Teletext programme	Turn to a PR channel that broadcasts teletext information. You cannot watch teletext broadcast recorded on a video tape.
The current time is not displayed	Receive the TELETEXT broadcast.
The current time runs to the side	The reception state of TELETEXT broadcast is poor, press (Display) button to erase the current time display.

The following are normal occurrences and are not the result of TV malfunctions:
- When you touch the CRT surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity; it does not affect the human body.
- Your TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a still bright image (of a white dress, for example) appears on the screen, the image may be coloured. This problem occurs in all CRTs, and as the bright image disappears, such colouration also disappears.

SPECIFICATIONS

MODEL	AV-25VM1EN	AV-28VM1EN
TV RF system	CCIR B/G	
Colour system	PAL, SECAM/NTSC 3.58, 4.43 MHz (only in EXT mode)	
Sound-multiplex system	A2, NICAM	
Teletext system	Fastext (United Kingdom system)/TOP (German system)/ WST (Standard system)	
Receiving channels	E2–E12, E21–E69, S1–S41, X, Y, Z, Z+1, Z+2, A–H, H+1, H+2	
Power input	AC 220 – 240 V, 50 Hz	
Power consumption	Average 90 W Maximum 133 W Standby 6.5 W	Average 102 W Maximum 142 W Standby 6.5 W
Picture tube	59 cm	66 cm
Audio output	Rated power output: 5 W + 5 W	
Speaker	5 × 12 cm oval × 2	
External input/output	• EXT-1 : 21-pin Euroconnector (SCART) • EXT-2 : 21-pin Euroconnector (SCART) • EXT-3: Video input: RCA Audio inputs: RCA × 2 • Headphone jack: stereo mini jack (Ø 3.5 mm)	
Dimensions (W × H × D)	658 mm × 512 mm × 445 mm	728 mm × 557.5 mm × 480 mm
Mass	26.8 kg	33.5 kg
Accessoires	• REMOTE CONTROL (RM-C761) × 1 • AAA (R03)-size Dry Cell Battery × 2	

Design and specifications subject to change without notice.

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